

4
4/13/01

OIPE

RAW SEQUENCE LISTING DATE: 04/13/2001
PATENT APPLICATION: US/09/756,398B TIME: 13:05:03

Input Set : A:\0975.1005-006SEQLIST.TXT
Output Set: N:\CRF3\04122001\I756398B.raw

4 <110> APPLICANT: Le, Junming
5 Vilcek, Jan
6 Daddona, Peter
7 Ghrayeb, John
8 Knight, David M.
9 Siegel, Scott
11 <120> TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
12 Human Tumor Necrosis Factor
15 <130> FILE REFERENCE: 0975.1005-006
17 <140> CURRENT APPLICATION NUMBER: US 09/756,398B
18 <141> CURRENT FILING DATE: 2001-01-08
20 <150> PRIOR APPLICATION NUMBER: U.S. 09/133,119
21 <151> PRIOR FILING DATE: 1998-08-12
23 <150> PRIOR APPLICATION NUMBER: U.S. 08/570,674
24 <151> PRIOR FILING DATE: 1995-12-11
26 <150> PRIOR APPLICATION NUMBER: U.S. 08/324,799
27 <151> PRIOR FILING DATE: 1994-10-18
29 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,102
30 <151> PRIOR FILING DATE: 1994-02-04
32 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,861
33 <151> PRIOR FILING DATE: 1994-02-04
35 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,093
36 <151> PRIOR FILING DATE: 1994-02-04
38 <150> PRIOR APPLICATION NUMBER: U.S. 08/010,406
39 <151> PRIOR FILING DATE: 1993-01-29
41 <150> PRIOR APPLICATION NUMBER: U.S. 08/013,413
42 <151> PRIOR FILING DATE: 1993-02-02
44 <150> PRIOR APPLICATION NUMBER: U.S. 07/943,852
45 <151> PRIOR FILING DATE: 1992-09-11
47 <150> PRIOR APPLICATION NUMBER: U.S. 07/853,606
48 <151> PRIOR FILING DATE: 1992-03-18
50 <150> PRIOR APPLICATION NUMBER: U.S. 07/670,827
51 <151> PRIOR FILING DATE: 1991-03-18
53 <160> NUMBER OF SEQ ID NOS: 19
55 <170> SOFTWARE: FastSEQ for Windows Version 4.0
57 <210> SEQ ID NO: 1
58 <211> LENGTH: 157
59 <212> TYPE: PRT
60 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 1
63 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
64 1 5 10 15
65 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
66 20 25 30
67 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
68 35 40 45
69 Val Val Pro Ser Glu Gly Leu Tyr Ile Tyr Ser Gln Val Leu Phe

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/756,398B

DATE: 04/13/2001

TIME: 13:05:03

Input Set : A:\0975.1005-006SEQLIST.TXT
 Output Set: N:\CRF3\04122001\I756398B.raw

```

70      50          55          60
71 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
72 65           70           75           80
73 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
74           85           90           95
75 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
76           100          105          110
77 Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
78           115          120          125
79 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
80           130          135          140
81 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
82 145           150           155
85 <210> SEQ ID NO: 2
86 <211> LENGTH: 321
87 <212> TYPE: DNA
88 <213> ORGANISM: Mus Balb/c
90 <220> FEATURE:
91 <221> NAME/KEY: CDS
92 <222> LOCATION: (1)...(321)
94 <400> SEQUENCE: 2
95 gac atc ttg ctg act cag tct cca gcc atc ctg tct gtg agt cca gga    48
96 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
97 1           5           10           15
99 gaa aga gtc agt ttc tcc tgc agg gcc agt cag ttc gtt ggc tca agc    96
100 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
101           20          25           30
103 atc cac tgg tat cag caa aga aca aat ggt tct cca agg ctt ctc ata   144
104 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
105           35          40           45
107 aag tat gct tct gag tct atg tct ggg atc cct tcc agg ttt agt ggc   192
108 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
109           50          55           60
111 agt gga tca ggg aca gat ttt act ctt agc atc aac act gtg gag tct   240
112 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
113           65          70           75           80
115 gaa gat att gca gat tat tac tgt caa caa agt cat agc tgg cca ttc   288
116 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
117           85          90           95
119 acg ttc ggc tcg ggg aca aat ttg gaa gta aaa
120 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
121           100         105
124 <210> SEQ ID NO: 3
125 <211> LENGTH: 107
126 <212> TYPE: PRT
127 <213> ORGANISM: Mus Balb/c
129 <400> SEQUENCE: 3
130 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
131 1           5           10           15

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,398B

DATE: 04/13/2001
TIME: 13:05:03

Input Set : A:\0975.1005-006SEQLIST.TXT
Output Set: N:\CRF3\04122001\I756398B.raw

132 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
133 20 25 30
134 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
135 35 40 45
136 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
137 50 55 60
138 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
139 65 70 75 80
140 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
141 85 90 95
142 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
143 100 105
146 <210> SEQ ID NO: 4
147 <211> LENGTH: 357
148 <212> TYPE: DNA
149 <213> ORGANISM: Mus Balb/c
151 <220> FEATURE:
152 <221> NAME/KEY: CDS
153 <222> LOCATION: (1)...(357)
155 <400> SEQUENCE: 4
156 gaa gtg aag ctt gag gag tct gga gga ggc ttg gtg caa cct gga gga 48
157 Glu Val Lys Leu Glu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
158 1 5 10 15
160 tcc atg aaa ctc tcc tgt gtt gcc tct gga ttc att ttc agt aac cac 96
161 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
162 20 25 30
164 tgg atg aac tgg gtc cgc cag tct cca gag aag ggg ctt gag tgg gtt 144
165 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
166 35 40 45
168 gct gaa att aga tca aaa tct att aat tct gca aca cat tat gcg gag 192
169 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
170 50 55 60
172 tct gtg aaa ggg agg ttc acc atc tca aga gat gat tcc aaa agt gct 240
173 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
174 65 70 75 80
176 gtc tac ctg caa atg acc gac tta aga act gaa gac act ggc gtt tat 288
177 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
178 85 90 95
180 tac tgt tcc agg aat tac tac ggt agt acc tac gac tac tgg ggc caa 336
181 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
182 100 105 110
184 ggc acc act ctc aca gtc tcc 357
185 Gly Thr Thr Leu Thr Val Ser
186 115
189 <210> SEQ ID NO: 5
190 <211> LENGTH: 119
191 <212> TYPE: PRT
192 <213> ORGANISM: Mus Balb/c
194 <400> SEQUENCE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,398B

DATE: 04/13/2001
TIME: 13:05:03

Input Set : A:\0975.1005-006SEQLIST.TXT
Output Set: N:\CRF3\04122001\I756398B.raw

195 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
196 1 5 10 15
197 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
198 20 25 30
199 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
200 35 40 45
201 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
202 50 55 60
203 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
204 65 70 75 80
205 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
206 85 90 95
207 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
208 100 105 110
209 Gly Thr Thr Leu Thr Val Ser
210 115
213 <210> SEQ ID NO: 6
214 <211> LENGTH: 8
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 6
219 Gly Thr Leu Val Thr Val Ser Ser
220 1 5
223 <210> SEQ ID NO: 7
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 7
229 Gly Thr Lys Leu Glu Ile Lys
230 1 5
233 <210> SEQ ID NO: 8
234 <211> LENGTH: 20
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: PCR oligonucleotides
242 <400> SEQUENCE: 8
243 cctggatacc tgtgaaaaga 20
245 <210> SEQ ID NO: 9
246 <211> LENGTH: 27
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: PCR oligonucleotides
254 <400> SEQUENCE: 9
255 cctggtacct tagtcaccgt ctccctca 27
257 <210> SEQ ID NO: 10
258 <211> LENGTH: 27
259 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,398B DATE: 04/13/2001
TIME: 13:05:03

Input Set : A:\0975.1005-006SEQLIST.TXT
Output Set: N:\CRF3\04122001\I756398B.raw

260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: PCR oligonucleotides
266 <400> SEQUENCE: 10
267 aatagatc tccttcaaca cctgcaa 27
269 <210> SEQ ID NO: 11
270 <211> LENGTH: 21
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: PCR oligonucleotides
278 <400> SEQUENCE: 11
279 atcgggacaa agttggaaat a 21
281 <210> SEQ ID NO: 12
282 <211> LENGTH: 16
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: PCR oligonucleotides
290 <400> SEQUENCE: 12
291 ggcggctcggtt taccgg 16
293 <210> SEQ ID NO: 13
294 <211> LENGTH: 19
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: PCR oligonucleotides
302 <400> SEQUENCE: 13
303 gtcaacaaca tagtcatca 19
305 <210> SEQ ID NO: 14
306 <211> LENGTH: 23
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: PCR oligonucleotides
314 <400> SEQUENCE: 14
315 cacaggtgtg tcccccaagga aaa 23
317 <210> SEQ ID NO: 15
318 <211> LENGTH: 18
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: PCR oligonucleotides
327 <400> SEQUENCE: 15
328 aatctgggtt aggcacaa 18
330 <210> SEQ ID NO: 16
331 <211> LENGTH: 17
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/756,398B

DATE: 04/13/2001
TIME: 13:05:04

Input Set : A:\0975.1005-006SEQLIST.TXT
Output Set: N:\CRF3\04122001\I756398B.raw